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MINES ACQUIRE NEW MACHINERY,  
EQUIPMENT, AND TECHNOLOGY

**NEW MACHINERY USED IN MOSBASS --** Moskovskiy Bol'shevik, No 202, 27 Aug 49

Since August 1948, 33 additional S-153 machines have been put into operation in stopes of the Moscow Basin. These machines completely replace manual labor in loading coal into cars. Each one of the mechanical loaders replaces many workers. Fifty of these machines are already in operation in mines of the Mosbass. Their number will be tripled by next August.

Another innovation is a small battery-powered electric locomotive, popularly called the "karlik" (the dwarf). It delivers the coal from advanced stopes and replaces the work of two or three drivers. Before August 1948, there were only a few of these locomotives in the Mosbass, but now there are over 40, and by August 1950 there should be 100.

The GFK-3 cutting machine has been used successfully for a long time. Now new machines have been designed and are being produced. Among these are the KMP-1 and MV-60 cutting machines, which are superior to the GFK-3 machine. Seven of the new machines are now in operation in Mosbass mines. By August 1950, about one third of all the old cutting machines will be replaced by the new, improved machines.

The Stalinogorsk Mine No 22 has more than doubled its planned production capacity in 1949, and now its daily production is greater than the former production of all the mines of Moscow Coal Basin taken together.

**DONBASS MINE FULLY MECHANIZED --** Trud, No 202, 27 Aug 49

The "Annenskaya" Mine, "Bryanskugol'" Trust, "Voroshilovgradugol'" Combine, is a perfect example of the rapidly developing Donbass. The introduction of new machinery is progressing according to plan. All mine operations will be completely mechanized. During the year following the first Miner's Day, the "Annenskaya" Mine received a large number of new machines, including Donbass combines, coal planes, MV-60 cutting machines, and rock-loading machines. The number of

- 1 -

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reloading machines, scraper conveyers, electric trolley cars, and other equipment, increased considerably. This mine now operates like a first-class underground plant.

Miners of the "Annenskaya" Mine have mastered new and remarkable techniques. The cutting machine gives an average of 4,000 tons of coal per month. The best cutting machine operators have now taken over the operation of coal combines and planes. Combine operators are striving to attain a monthly output of 8,000 - 12,000 tons of coal per machine unit.

The "Annenskaya" Mine is now operating at the 1950 production level and produced 15 trainloads of coal above plan by Miner's Day.

GEORGIAN COAL MINES TO IMPROVE TECHNOLOGY -- Zarya Vostoka, No 168, 27 Aug 49

The Tkibuli coal deposits in Georgia are extremely complex in their structure and formation of layers. The advisability of mining Tkibuli coal deposits with the help of hydraulic methods has been considered for a number of years. This method is essentially as follows: After removing one layer of coal, the empty space is filled with fine-grained rock with the help of a hydraulic conveyor; this layer of rock settles down and consolidates, thus forming the basis for mining the following layer. Thus, in working upward and having a firm foundation below, it is possible to take out all the coal without leaving any seams or blocks. With the current method of coal mining such seams or blocks remain and it is impossible to extract coal from them. The coal thus remains in the ground, representing a loss of up to 60 percent. Under the influence of rock pressure the blocks disintegrate and present one of the main sources of underground fires.

The plans for converting the mines of the "Tkibulugol'" Trust to hydraulic mining methods have been approved by the Ministry of Coal Industry USSR. It is now up to the mine construction workers to put the plans into practice. The pits have to be rebuilt and adapted to hydraulic mining. This will make it possible to cut down loss of coal to one third of the former loss and to reduce the use of timber shores in the mines. -- M. Kebaladze, chief engineer, "Gruzshakhtoprojekt" Trust

Zarya Vostoka, No 168, 27 Aug 49

Georgian scientists have lately increased their aid to mine workers. The Institute of Metal and Mining, Academy of Sciences Georgian SSR, under the supervision of A. Dzidziguri, Candidate in Technical Sciences, has done valuable work in this connection. At the request of the "Gruzugol'" Combine, the institute has organized so-called depression surveys in mines. Groups of scientific workers were active for several months in the mines of Tkibuli and Tkvarcheli. The ventilation system was thoroughly studied, which resulted in developing measures for the improvement of mine ventilation.

Zarya Vostoka, No 166, 25 Aug 49

A Tkvarcheli mine worker has invented a new boring bit which will double the speed of drilling for coal of average hardness. Mass production of this device is under way in the central electrical engineering shops of the trust.

An automatic signaling device is about to be tested on the air cableway.

- 2 -

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NEW BOOKS PUBLISHED ON COAL MINING -- Vechernyaya Moskva, No 204, 27 Aug 49

The "Moskovskiy rabochiy" publishing office has published a new book, Bol'she uglia Rodine! (More Coal for the Homeland!). This is a collection of articles on coal mining in the Moscow basin.

The introductory article written by Lebedkov, head of the "Moskvougol'" Combine, tells of the achievements of Moscow coal miners. During the postwar Five-Year Plan, the Moscow Basin has become an important fuel base of the country. By the middle of 1949, the "Moskvougol'" Combine was producing three times more coal than before the war.

An article entitled "On the Way to Complex Mechanization" by Reznikov, chief engineer of the "Moskvougol'" Combine, says that the Moscow Basin is now one of the most completely mechanized coal basins.

An interesting article by Portnova tells of valuable experiments in labor organization and in the introduction of new mining techniques.

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- 3 -

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